

DISCLOSURE LETTERS

November 1977

PM 733 - H. Merritt
G. Kite

5-6-76

LOW TEMPERATURE STEAM EXPANSION OF AMMONIUM CARBONATE IMPREGNATED FILLER

Evaluation in progress; probably needs Patent Committee recommendation.

* * *

PM 734 - F. Utsch

5-6-76

EXPANSION WITH AMMONIUM CARBAMATE

Tobacco impregnated by exposure to ammonium carbamate powder prior to expansion by heat. See our Armstrong et al. patent and PM 697.

* * *

PM 743 - M. Kelley, Jr.

6-18-76

IMPROVED FILTER FOR DILUTED CIGARETTES

Ventilation tube leads air to central part of filter.

* * *

PM 744 - M. Kelley, Jr.

7-6-76

IMPROVED FLAVOR FROM LOW DELIVERY DILUTED CIGARETTES

Disc baffle diverts smoke to outer edge of filter to better mix with dilution air.

Search completed.

* * *

1005115983

PM 749 - E. Rundberg

9-9-76

GLUCOSE ESTERS AS TOBACCO FLAVORANTS

Flavor immobilized until release on burning. Awaiting evaluation by T. Sanders.

* * *

PM 756 - T. Cummins

10-14-76

"LITETRONIC" CIGARETTE INSPECTION DEVICE

Awaiting review at Louisville on the basis of prototype unit recently completed.

* * *

PM 758 - H. Lewis

11-22-76

D. Hirsch

CID TYPE 4 MISSING TIP DETECTOR AND REJECT COUNT CORRECTOR

In conflict with existing patent; given inactive status.

* * *

PM 760 - D. Laslie

12-3-76

EXTRUDATE THREADING SYSTEM FOR EXTRUDING LINES

Awaiting information.

* * *

PM 768 - J. Swain

2-14-77

F. Crayton

TOBACCO FLAVOR-REACTION PRODUCTS

Reaction products of fructose, ammonia, and fatty acids to flavor tobacco.

Search completed; await examples.

* * *

1005115984

PM 769 - W. Nichols
D. Laslie

2-15-77

METHOD FOR MAKING WRAPLESS CIGARETTE FILTERS

Microwave forming of wrapless plugs, as in PM 735, but with plasticizer replaced by slightly volatile "activator" such as glycols, glycerol.

Awaiting further information.

* * *

PM 772 - J. Nienow
F. Sherwood

4-5-77

RELATIVE HUMIDITY INSTRUMENT

Utilizes microwave moisture measurement of natural product to determine r.h. of environment.

* * *

PM 777 - H. Scott

5-12-77

PACKAGE CONSTRUCTION

Flip-top box blank made for unsecured inside flap. Infringement search completed.

Given inactive status.

* * *

PM 781 - H. Merritt

6-27-77

CO₂ EXPANSION VIA DRY ICE--GAS IMPREGNATION

Filler chilled with dry ice, exposed to 300-600 psig CO₂ gas for subsequent expansion. See PM 773 and PM 727.

* * *

PM 783 - R. de la Burde
P. Aument
F. Utsch

7-18-77

MOISTURIZING OF EXPANDED TOBACCO BY WATER SPRAY

Disclosure nearly complete.

1005115985

PM 785 - L. Meyer
W. Houck, Jr.

8-16-77

IMPROVED DILUTION UNIFORMITY OF VENTED FILTER TIP CIGARETTES

Wrapless acetate filter plugs for both vented and unvented filters. For latter, goal is simplification of making.

* * *

PM 786 - G. Keritsis

8-18-77

FILTER MATERIAL

* * *

PM 787 - E. Sanders

9-21-77

USE OF PHENOLIC GLYCOSIDES AS FLAVORANTS IN TOBACCO

Phenolic glycosides useful as flavorants in smoking materials are disclosed. On pyrolysis, the phenol flavorant is released to flavor the smoke. Advantageous in that the compounds are odorless and reduce pack aroma.

* * *

PM 788 - H. Grubbs

10-7-77

USE OF POLY(ISOPROPENYL ESTERS) AS CARBOXYLIC ACID-RELEASE AGENTS ON TOBACCO

Poly(isopropenyl ester) flavorants useful in smoking materials are disclosed. On pyrolysis, carboxylic acids, such as acetic, butyric, isovaleric, and the like, are released to improve the flavor and aroma of smoke. Pack aroma is also reduced.

* * *

PM 789 - J. Namesny

10-11-77

CONTROLLED DILUTION (CIGARETTES) USING STANDARD FILTER WRAP

* * *

1005115986

PM 790

8-1-77

A PROCESS FOR THE IMPROVING OF TOBACCO (ACCELERATED FERMENTATION)

A culture of microorganisms is made to react on the nitrates and nitrites in tobacco under anaerobic conditions to reduce to the desired level.

* * *

PM 791 - N. Rainer

10-14-77

G. Bokelman

J. Hearn

EXPANSION PROCESS FOR UNCURED TOBACCO

Homogenized leaf cured tobacco is expanded using a basic hydrogen peroxide solution followed by roasting to obtain about a 5% weight loss. Product has improved color and smoking qualities.

* * *

PM 792 - G. Mathe

10-24-77

J. Namesny

A. Gergely

TIPPING PAPER PERFORATION BY ULTRASONIC POWER

Very high speed perforation accomplished by ultrasonic-powered tool.

* * *

PM 793 - G. Mathe

10-24-77

J. Namesny

PAPER SLITTING BY ULTRASONIC POWER

Paper passed between grooved roll and ultrasonic-powered tool.

* * *

PM 794 - D. Watson

10-24-77

MICROWAVE/GAS CHROMATOGRAPHY

Microwave spectroscopy for selective detection of components eluting from a gas chromatograph.

* * *

1005115987

PM 795 - D. Watson

10-24-77

MICROWAVE/GAS CHROMATOGRAPHY

Microwave energy source selectively vaporized components for further separation by GC.

* * *

PM 796 - B. Semp

10-28-77

D. Teng

S. Tenhet

BIOSYNTHESIS OF A TOBACCO FLAVORANT OR TOBACCO SMOOTHER/FERMENTED TOBACCO

Biosynthesis of tobacco fermentation flavorants by microorganisms. Advantages include use on unfermented tobacco and low delivery cigarettes. In addition it is more rapid than conventional tobacco fermentation procedures.

* * *

PM 797 - N. Rainer

10-28-77

J. Hearn

PROCESS FOR INCREASING THE FILLING POWER OF TOBACCO STEM MATERIAL

RKS treated with ozone followed by treatment with alkaline hydrogen peroxide to effect expansion. Stems are then roasted to obtain 3 to 7% weight loss.

* * *

PM 799 - W. Nichols

11-7-77

METHOD FOR PREVENTING ADHESIVE BLEED THROUGH

Mechanism raises the plugwrap when machine turned off, removes from contact with hot melt applicator.

* * *

PM 800 - B. Semp

11-10-77

D. Teng

LIPID REMOVAL FROM GREEN TOBACCO

Green tobacco is treated with a lipase enzyme to remove lipids. The "green" odor is eliminated and smoking quality improved.

1005115988

PM 801 - L. Wu

11-16-77

AMINO ACID-SUGAR TOBACCO FLAVORANTS

The reaction of sugars with amino acids in the presence of ammonia is disclosed. Products are useful as tobacco flavorants.

* * *

PM 802 - J. Washington

11-23-77

G. Crowther

R. Gaudlitz

DEVICE FOR MEASURING POROSITY OF PAPER

Operates over a wide range of porosities by computer matching to find a combination of orifices while pressure is held constant.

* * *

PM 803 - G. Mathe

11-23-77

RHEOMETER

A special construction permits incorporation of foaming agent into polymer in the rheometer for determination of rheological properties of the foamed material.

* * *

PM 804 - A. Lilly, Jr.

11-30-77

F. Watson III

P. Martin

J. Price

DETECTORS FOR MILPRINT VACUUM EVAPORATED ALUMINUM FOIL

A thin film metal detector for detecting presence of cigarette package foils of very small thickness.

* * *

1005115989